

The mine consists of various ores of silver and lead intermixed with zinc, lying in two large and two smaller lodes and veins. These veins underlie to the west, and are cut off by two faults, one to the northward and one to the southward, which, being produced, meet to the westward of the workings. In consequence, as the works deepen, the length of the workings decrease, yet the whole content of the veins has not been found to diminish; the throw of the faults was not yet known, but must be determined when the veins within the area of the faults are worked out.

Dr. Patterson remarked, that this was the only silver mine worked in the United States, and that the product, as presented at the Mint, had been about \$30,000 in silver, containing about \$7000 in gold.

Dr. Bache called the attention of the meeting to the late experiments of Dr. Faraday upon the condensation of gases.

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*Stated Meeting, April 4.*

Present, twenty-two members.

DR. BACHE, Vice-President, in the Chair.

A letter was received:—

From Signor Francesco Zantedeschi, dated Venice, 9th November, 1844, transmitting certain memoirs of which he is the author, and expressing his anxiety that a scientific intercourse should exist between America and Northern Italy, through this Society.

The following donations were announced:—

FOR THE LIBRARY.

The History of Oregon and California, and the other Territories on the North-west Coast of North America; accompanied by a Geographical View and Map of those Countries, and a number of Documents as Proofs and Illustrations of the History. By Robert Greenhow. Boston, 1844. 8vo.—*From the Department of State, Washington.*

- Boston Journal of Natural History. Vol. II. August, 1839. No. 3, 4. 8vo. Vol. V. No. 1. January, 1845.—*From the Society.*
- Proceedings of the Boston Society of Natural History. Nos. 17 to 21, inclusive. October, 1843, to November, 1844. 8vo.—*From the same.*
- The Medical News and Library. Vol. III. April, 1845. No. 28. 8vo.—*From Lea & Blanchard.*
- First Report on Meteorology, to the Surgeon-General of the United States Army, by James P. Espy, A.M. Washington, Oct. 9, 1843. 4to.—*From the Author.*
- Report of the Select Committee of the House, relative to the Use of Mercury in the Practice of Medicine. Harrisburg, 1845. 8vo.—*From Charles B. Trego, Esq.*
- Report of the Select Committee on the Maps, Plates, &c., of the Exploring Expedition. 28th Congress, 2d Session, House of Representatives, Doc. 160.—*From Titian R. Peale.*
- Memoirs on the Military Resources of the Valley of the Ohio, as applicable to Operations on the Gulf of Mexico; and on a System for the Common Defence of the United States. By John Sanders. With a Review of the same by James L. Mason. Washington, 1845. 8vo.—*From Major Hartman Bache.*
- Trattato del Magnetismo e della Elettricità dell' ab. Francesco Zantedeschi. Parte I. Venezia, 1844. 8vo.—*From the Author.*
- Elenco delle Principali Opere Scientifiche presentate ad Accademie o pubblicate dell' Abate Francesco Zantedeschi. Venezia, 1842. 4to.—*From the same.*
- Del Trasporto della Materia Pesante nelle due opposte Correnti dell' Apparato Voltiano della loro Natura e del Moto Vorticoso o a Spirale dell' Arco Luminoso. Memoria dell' Abate Francesco Zantedeschi. Vicenza, 1844. 4to.—*From the same.*
- Memoria sul Termo-Elettricismo Dinamico nei Circuiti formati di un solo metallo dell' Abate Francesco Zantedeschi. Vicenza, 1844. 4to.—*From the same.*
- Report of Edward Miller, Civil Engineer, on the Improvement of the Schuylkill Navigation, made to the Board of Managers, March 11, 1845. 8vo.—*From S. W. Roberts.*

The list of Committees on subjects of science, which have not yet reported, was read.

The Committee on Prof. Henry's communications of elec-

trical induction, having at present nothing before them, were discharged.

The list of members appointed to write obituary notices of deceased members of the Society, was read.

Dr. Patterson drew the attention of the Society to a specimen of what is technically called a "grain" of gold, found on the lands of a Virginia gentleman, Mr. David R. Pulliam, in Spotsylvania County: its weight was  $25\frac{1}{2}$  ounces: the quality of the gold, 897.5 thousandths by standard. The specific gravity of the gold was found to be 17.87. The specific gravity of the whole mass was 14.87; the value of the gold in it is \$456.54, which was determined by the problem of Archimedes. Dr. Patterson referred to cases of grains of gold found in this country, which are on record in the Manual of Coins by Messrs. Eckfeldt and Du Bois, and to others found in other countries.

Professor Frazer mentioned one found in 1843, in the Ural mountains, described by Baron Humboldt in the *Annales de Chimie*, Tom. VII., which is the largest on record, weighing over 72 lbs. avoirdupois.

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*Stated Meeting, April 18.*

Present, twenty-seven members.

Dr. BACHE, Vice-President, in the Chair.

Letters were received and read:—

From the Royal Asiatic Society, dated London, 2d November, 1844, acknowledging the receipt of the Transactions and Proceedings of the Society:—

From the Society of Antiquaries of London, dated London, 29th November, 1844, accompanying a donation of certain works to this Society:—

From Mr. C. A. Le Sueur, dated Havre, 14th February, 1845, accompanying a donation of Geological Views of the *Falaises* at the Cape of Laheve, near Havre:—and

From the American Minister at the Court of St. James, Mr. Everett, dated London, 14th March, 1845, in relation to the